

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A process for the production of a polyurethane product by reaction of a mixture of

(a) at least one organic polyisocyanate with

(b) a polyol composition comprising

(b1) from 0 to 99 percent by weight of at least one polyol compound having a nominal starter functionality of 2 to 8 and a hydroxyl number from 20 to 800, and

(b2) from 1 to 100 percent by weight of at least one polyol wherein the polyol has tertiary amine end-capping and is the reaction product of a polyol terminated with acrylate or methacrylate functionality and a compound having a tertiary amine functionality and a primary or secondary amine functionality having autocatalytic function and no carbonate, urethane or ester groups when the tertiary amine is a dialkylamino moiety,

(c) optionally in the presence of one or more polyurethane catalysts, with the proviso that no tin catalyst is used when the tertiary amine of polyol (b2) is a dialkylamine group in a position Beta to a terminal hydroxyl moiety.

(d) optionally in the presence of a blowing agent; and

(e) optionally additives or auxiliary agents known per se for the production of polyurethane foams, elastomers and/or coatings.

2. (Original) The process of Claim 1 wherein (b) is a polyol blend containing 5 to 99 percent by weight of (b1) and 1 to 95 percent by weight of (b2).

3. (Currently Amended) A process for the production of a flexible polyurethane foam by reaction of a mixture of

(a) at least one organic polyisocyanate with

(b) a polyol composition having an average functionality of 3 to 6 and an average hydroxyl number of 20 to 100 wherein the polyol comprises, based on the total amount of polyol component (b)

(b1) from 5 to 99 percent by weight of a polyol having a functionality of 2 to 8 and a hydroxyl number of 20 to 100 and

(b2) from 1 to 95 percent by weight of at least one polyol wherein the polyol has tertiary amine end-capping and is the reaction product of a polyol terminated with acrylate or methacrylate functionality and a compound having a tertiary amine functionality and a primary or secondary amine functionality having autocatalytic function and no carbonate, urethane or ester groups when the tertiary amine is a dialkylamino moiety,

(c) in the presence of a blowing agent,

(d) optionally in the presence of one or more polyurethane catalysts, with the proviso that no tin catalyst is used when the tertiary amine of polyol (b2) is a dialkylamino group in a position Beta to a terminal hydroxyl moiety, and

(e) optionally additives or auxiliary agents known per se for the production of a flexible polyurethane foam.

4. (Original) The process of Claim 3 wherein the blowing agent is water in an amount from 0.5 to 10 parts by weight of component (b).

5. (Original) The process of Claim 4 wherein the blowing agent further comprises carbon dioxide added either as a gas or as a liquid.

6. (Original) The process of Claim 3 wherein a carboxylic or hydroxyl carboxylic acid is added to the reaction mixture.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Currently Amended) The process of any one of claims 1-7 to 13 wherein the polyisocyanate is a toluene diisocyanate.

15. (Currently Amended) The process of any one of Claim 13 or 6 to 13 for the production of a foam containing an integral skin.

16. (Currently Amended) The process of any one of claims 3-1 to 14-6 wherein the polyisocyanate (a) contains at least one polyisocyanate that is a reaction product of an excess of polyisocyanate with polyol (b1), (b2) or a mixture thereof.

17. (Currently Amended) A polyol blend comprising

(i) from 5 to 99 percent by weight of at least one polyol compound having a nominal starter functionality of 2 to 8 and a hydroxyl number from 20 to 800, and

(ii) from 1 to 100-95 percent by weight of at least one polyol wherein the polyol has tertiary amine end-capping and and is the reaction product of a polyol terminated with acrylate or methacrylate functionality and compound having a tertiary amine functionality and a primary or secondary amine functionality, contains no carbonate, urethane or ester groups when the tertiary amine is a dialkylamino moiety.